```c
/*******************************************************************************

                            Online C Compiler.
                Code, Compile, Run and Debug C program online.
Write your code in this editor and press "Run" button to compile and execute it.

*******************************************************************************/


#include<stdio.h>
#include<conio.h>


#define MAX 5

int top=-1,stack[MAX];
void push();
void pop();
void display();

void main()
{
    int ch;
        printf("\n  Stack Menu  ");
        printf("\n1.Push\n2.Pop\n3.Display\n4.Exit");

    do
    {
```

```c
30      printf("\nEnter your choice:");
31      scanf("%d",&ch);
32
33      switch(ch)
34      {
35          case 1: push();
36                  break;
37          case 2: pop();
38                  break;
39          case 3: display();
40                  break;
41
42
43
44      }
45
46  }while(ch!=4);
47  }
48
49  void push()
50  {
51      int val;
52
53      if(top==MAX-1)
54      {
55          printf("\nStack is full!!");
56      }
57      else
58      {
```

```c
58     {
59         printf("\nEnter element to push:");
60         scanf("%d",&val);
61         top=top+1;
62         stack[top]=val;
63     }
64 }
65
66 void pop()
67 {
68     if(top==-1)
69     {
70         printf("\nStack is empty!!");
71     }
72     else
73     {
74         top=top-1;
75     }
76 }
77
78 void display()
79 {
80     int i;
81
82     if(top==-1)
83     {
84         printf("\nStack is empty!!");
85     }
86     else
```

```c
62        stack[top]=val;
63        }
64    }
65
66    void pop()
67    {
68        if(top==-1)
69        {
70            printf("\nStack is empty!!");
71        }
72        else
73        {
74            top=top-1;
75        }
76    }
77
78    void display()
79    {
80        int i;
81
82        if(top==-1)
83        {
84            printf("\nStack is empty!!");
85        }
86        else
87        {
88            for(i=top;i>=0;--i)
89                printf("%d\n",stack[i]);
90        }
91    }
```

```
    Stack Menu
1.Push
2.Pop
3.Display
4.Exit
Enter your choice:1

Enter element to push:3

Enter your choice:3
3

Enter your choice:2

Enter your choice:2

Stack is empty!!
Enter your choice:
```